

AB-334U

10/642,851

IN THE CLAIMS:

Please amend the claims as follows:

1. (canceled)

2. (previously presented) The system of Claim 5, further comprising a stereotactic frame, wherein the reference platform is attached to the stereotactic frame.

3-4. (canceled)

5. (currently amended) A deep brain stimulation system comprising:  
a cannula having a lumen and a slit, the slit extending through a portion of a length of the cannula;

an elongated medical device dimensioned to be insertable within the cannula lumen, the medical device comprising an offset portion that extends laterally out of the cannula through the slit when the medical device is inserted in the lumen;

a reference platform for supporting the medical device; and

a lock for releasably securing the offset portion of the elongated medical device to the reference platform, the lock engaging the offset portion which extends through the cannula slit;

wherein the elongated medical device includes a lumen along its length, wherein the lumen of the elongated medical device does not extend through the offset portion.

AB-334U

10/642,851

6. (canceled)

7. (previously presented) The system of Claim 13, further comprising a stereotactic frame, wherein the reference platform is attached to the stereotactic frame.

8-9. (canceled)

10. (currently amended) A deep brain stimulation system comprising:  
a cannula having a lumen ~~therein for passage of a medical device into a patient~~ and a slit,  
the slit extending through a portion of a length of the cannula; ~~the~~  
a medical device dimensioned to be insertable within the lumen of the cannula and  
comprising an offset portion that extends laterally out of the cannula through the slit when the  
medical device is inserted in the lumen; and  
a reference platform for supporting at least a portion of the medical device; and  
~~a lock for releasably securing the offset portion of the medical device to the reference~~  
~~platform, the lock engaging the offset portion which extends through the cannula slit;~~  
wherein the medical device offset portion further comprises a lumen along its length that  
does not extend through the offset portion ~~paddle electrode connector.~~

11. (currently amended) The system of claim 25 ~~Claim 10~~, wherein the paddle  
electrode connector is configured to form an electrical connection with an operating room cable,  
wherein the cable is configured to connect to an external trial stimulator.

AB-334U

10/642,851

12. (previously presented) A deep brain stimulation system comprising:

- a cannula having a lumen therein for passage of a medical device into a patient and a slit, the slit extending through a portion of a length of the cannula, the medical device comprising an offset portion that extends laterally out of the cannula through the slit when the medical device is inserted in the lumen;
- a reference platform for supporting the medical device; and
- a lock for releasably securing the offset portion of the medical device to the reference platform, the lock engaging the offset portion which extends through the cannula slit;

wherein the medical device includes a lumen that does not extend through the offset portion.

13. (previously presented) A deep brain stimulation system comprising:

- a cannula having a lumen therein for passage of a medical device into a patient and a slit, the slit extending through a portion of a length of the cannula, the medical device comprising an offset portion that extends laterally out of the cannula through the slit when the medical device is inserted in the lumen;
- a reference platform for supporting the medical device; and
- a lock for releasably securing the offset portion of the medical device to the reference platform, the lock engaging the offset portion which extends through the cannula slit;

wherein the cannula is configured to be removable from the medical device and the lock without disturbing the position of the medical device.

AB-334U

10/642,851

14. (canceled)

15. (currently amended) A method for securing a lead in a deep brain stimulation system comprising the steps of:

providing a cannula with a lumen and a slit, the slit extending through a portion of a length of the cannula;

inserting a lead into the lumen of the cannula, the lead having an offset portion that extends laterally out of the cannula through the slit when the lead is inserted in the lumen and that includes an electrode connector;

releasably securing the offset portion of the lead to the reference platform through the slit using a lead lock; and

The method of Claim 16, further comprising the step of fastening the lead lock to a reference platform of a stereotactic frame.

16. (currently amended) A method for securing a lead in a deep brain stimulation system comprising the steps of:

providing a cannula with a lumen and a slit, the slit extending through a portion of a length of the cannula;

inserting a lead into the lumen of the cannula, the lead having an offset portion that extends laterally out of the cannula through the slit when the lead is inserted in the lumen; and

AB-334U

10/642,851

releasably securing the offset portion of the lead to the reference platform through the slit  
using a lead lock;

wherein the offset portion of the lead further includes a lumen along its length that does  
not extend through the offset portion including an electrode connector.

17. (currently amended) The method of claim 27 ~~Claim 16~~, wherein the step of  
releasably securing the offset portion of the lead further comprises clamping the lead lock to the  
lead.

18. (currently amended) The method of claim 27 ~~Claim 16~~, wherein the step of  
releasably securing the offset portion of the lead further comprises pinching the lead with the  
lead lock.

19. (currently amended) The method of claim 27 ~~Claim 16~~, wherein the step of  
releasably securing the offset portion of the lead further comprises suturing the lead to the lead  
lock.

20. (currently amended) The method of claim 27 ~~Claim 16~~, wherein the step of  
releasably securing the offset portion of the lead further comprises piercing the lead with the lead  
lock.

AB-334U

10/642,851

21. (previously presented) The system of claim 5, wherein the lock, when engaged, is configured to prevent further passage of the elongated medical device through the lumen.

22. (previously presented) The system of claim 12, wherein said medical device comprises at least one or more of a lead, a catheter, a microelectrode, and a stylet.

23. (previously presented) The system of claim 12, wherein said medical device includes a lumen and wherein said system further comprises a microelectrode dimensioned to be insertable into the lumen of the medical device.

24. (previously presented) The system of claim 12, wherein said cannula is removeably coupled to said reference platform.

25. (new) The system of claim 10, wherein the offset portion further comprises a paddle electrode connector.

26. (new) The system of claim 10, further comprising a lock for releasably securing the offset portion of the medical device to the reference platform.

27. (new) The method of claim 16, wherein the step of releasably securing the offset portion of the lead further comprises using a lead lock to secure the offset portion of the lead to the reference platform through the slit.